

# International Conference on AI in Healthcare (AIHC 2027)

Technically Co-Sponsored by IEEE Hyderabad Section  
**IEEE Conference Record #71011**

## Call For Papers

### Conference Tracks

#### 1 AI for Medical Diagnostics and Imaging

- Deep learning for radiology and histopathology
- Medical image classification and object detection
- 3D reconstruction from medical scans (MRI, CT, PET)
- Multi-modal imaging fusion and analysis
- AI-driven diagnostic systems for ophthalmology and dermatology
- Vision transformers and GANs in medical imaging
- Automated screening tools for X-ray, CT, and ultrasound
- Radiomics and imaging biomarkers discovery
- Real-time AI assistance in surgical imaging

#### 2 ML in Clinical Decision Support & Predictive Analytics

- Machine learning for electronic health records (EHR) analytics
- Clinical decision support systems (CDSS)
- Disease progression modeling and survival prediction
- AI for drug response prediction and personalized treatment
- Reinforcement learning for treatment recommendation
- Anomaly detection in clinical data
- Prognostic and diagnostic models using multi-omics data
- Temporal pattern analysis in ICU and emergency data
- NLP for clinical text mining and summarization

#### 3 IoT, Edge, and Wearable Technologies in Healthcare

- IoT-based smart health monitoring systems
- Body sensor networks and wearable devices
- Edge AI for low-latency medical applications
- Mobile health (mHealth) applications with real-time feedback
- Remote patient monitoring using AI and IoT
- Secure and scalable architectures for medical IoT
- Federated learning for distributed medical data
- Smart ambient assisted living environments
- Data fusion and contextual reasoning in healthcare IoT

#### 4 Ethics, Explainability, and Human-Centric AI in Medicine

- Explainable AI (XAI) in medical diagnostics
- AI fairness and bias mitigation in healthcare models
- Ethical frameworks for deploying AI in clinical settings
- Human-in-the-loop and collaborative intelligence
- Trustworthy and transparent AI systems
- Privacy-preserving machine learning in healthcare
- Regulatory compliance and responsible AI governance
- AI for underserved and rural healthcare applications

#### 5 Integrating Traditional Wellness Systems With Intelligent Healthcare Technologies

- AI applications in Ayurveda, Yoga, and Naturopathy
- Computational intelligence for holistic wellness assessment
- Diagnostics and decision-support systems for AYUSH practitioners
- Machine learning models for herbal medicine & formulations
- Intelligent systems for lifestyle diseases, mental well-being, and preventive care
- Integration of AYUSH with IoT, wearable sensors, and digital therapeutics
- Evidence-based research frameworks for traditional healthcare
- AI-driven personalized wellness recommendations
- Indigenous knowledge systems & digital transformation

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### Important Dates

- Call for Papers Starts: **10 January 2026**
- Full Paper Submission: **30 August 2026**
- Acceptance Notification: **25 September 2026**
- Registration Deadline: **10 November 2026**
- Camera-Ready Paper Submission: **15 November 2026**
- Conference Dates: **23-24 January 2027**

#### Paper Submission



#### Website



### For More Details



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